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CGS SW Release Notes

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Abstract:

This document issue provides the description of the CGS SW release 6.2.5 (engineering release for qualification purpose) based on CGS 6.2.4 release.

DCR Daten/Dokument-Änderungsnachweis/Data/Document Change Record

Überarbeitung Revision	Datum Date	Betroffener Abschnitt/Paragraph/Seite Affected Section/Paragraph/Page	Änderungsgrund/Kurze Änderungsbeschreibung Reason for Change/Brief Description of Change
2/-	30.04.2004	All	Initial release (6.2.0)
2/A	13.05.2004	All	Bug Fixes (6.2.0.1)
2/B	07.07.2004	All	Extended Functionality for Aeolus (6.2.1)
2/C	27.08.2004	All	Extended UCL Debugger Functionality (6.2.2)
2/D	10.09.2004	All	Bug Fixing for 6.2.2
2/E	22.09.2004	All	Bug Fixing for 6.2.2
2/F	15.10.2004	All	Bug Fixing for 6.2.2
2/G	22.10.2004	All	Final version for 6.2.2 (B14)
2/H	17.12.2004	All	version for 6.2.3 (B15)
2/I	28.01.2005	All	version for 6.2.3 (B18)
3/-	11.02.2005	All	version for 6.2.3 (B20)
4/-	18.02.2005	All	Final version for 6.2.3
5/-	11.02.2005	All	version for 6.2.4 (B21)
6/-	22.04.2005	All	Final version for 6.2.4
7/-	03.06.2005	All	version for 6.2.5 (B24)
8/-	03.06.2005	All	Final version for 6.2.5 identical to 7/-

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1 Introduction

1.1 Identification and Scope

This document is the CGS 6.2.5 SW Release **Notes**. The release is identified by document CGS SRO [AD 2.1.1].

CI Name : CGS SW

CI Number : 1130992

CI Variant : 6.2.5

1.2 Purpose

The purpose of this software release is a delivery to CGS AIV to qualify it.

1.3 Document Layout

This document has the following layout:

Chapter 1 provides the document identification and identifies under which CI this document is prepared. It also identifies the next higher level component CI. Chapter 1 also provides an overview of the purpose of the document and the overall document structure.

Chapter 2 provides the list of documents which are applicable or are referenced.

Chapter 3 provides an overall description of the release. Thus in this chapter all SW products being integrated are listed including the temporary fixes necessary to run the SW. This chapter also provides the identification of CCU versions being used for the SW product integration (if any).

Chapter 4 provides an overview of the release status. This includes a statement on the current test status and the identification of SPRs being fixed with this release.

Chapter 5 provides the installation instruction for the CGS SW.

Appendix A provides a list of abbreviations being used

Appendix B provides a list of terms being used in a certain sense.

Appendix C provides the file listing of the delivery.

2 Applicable and Reference Documents

2.1 Installation Manuals

CGS-RIBRE-SUM-0002: CGS Installation Manual, Issue 2/-, 12.09.2003

2.1.1 Software Release Order

CGS-RIBRE-SRO-0006: CGS Software Release Order, Issue 8/- 03.06.2005

2.2 User Manuals

CGS-RIBRE-SUM-0001:	CGS User Manual, Issue 3/1, 15.10.2004
COL-RIBRE-MA-0030-00	MDA Introduction Manual, Issue 3/B 4.4.1997
CGS-RIBRE-SUM-0003	MDA Reference Manual, Issue 01/B 23.09.2004
COL-RIBRE-MA-0018-00	MDA Administration Manual, Issue 4/B 31.03.2000
COL-RIBRE-MA-0037-00	DADIMA Introduction Manual, Issue 3/- 4.4.1997
CGS-RIBRE-SUM-0005	DADIMA Reference Manual, Issue 01/- 09.11.2001
CGS-RIBRE-SUM-0006	DADIMA Administration Manual, Issue 01/- 09.11.2001
COL-RIBRE-MA-0046	SID Range Tool Users and Operations Manual, Issue 1/- 15.09.1997
UM-114-001-ROV	GWDU User's Manual and Operations Manual, Issue 1.4, 1999

2.3 Reference Manuals

CGS-RIBRE-STD-0001	User Control Language (UCL) Reference Manual, Issue 2/C, 20.02.2005
CGS-RIBRE-STD-0002	High Level Command Language (HLCL) Reference Manual, Issue 2/ C, 20.02.2005
CGS-RIBRE-STD-0003	Virtual Stack Machine and I-Code Reference Manual, Issue 2/A, 01.09.2004
COL-RIBRE-STD-0008	Reference Manual for Crew Procedure Language and Software, Commanding, Issue 1/F, 31.10.2001

2.4 Requirements Specifications

CGS-RIBRE-SPE-0001	Columbus Ground System (CGS) Requirement Specification, Issue 2/D, 23.03.2004
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2.5 Design Documentation

COL-RIBRE-ADD-0006	Columbus Ground System (CGS) Software Architectural Design Document, Issue 4/B, 30.10.1998
--------------------	--

2.6 Interface Definitions

CGS-RIBRE-ICD-0001 System to CGS ICD, Issue 1/-, 31.01.2002

3 Release Overview

3.1 CCU Version Identification

This CGS SW Release provides no mission database content.

3.2 Integrated Products

In following table all SW components are identified necessary to build this release of the CGS SW.

- CGSI
- CLS
- DBS / Command History
- GWDU
- HCI
- MDA / CGS_MBD_V6_2_0
- TES
- TEV
- TSCV
- TSS
- CGS_API

3.3 Release Media & their Contents

The VTC SW System is delivered on a as being identified in Table 1.

Data Carrier ID	Title / Contents	Receiver
CGS-RIBRE-DC-0123	CGS_6.2_B24 (Master)	Dcc
CGS-RIBRE-DC-0124	CGS_6.2_B24 (Backup)	CGS CM
CGS-RIBRE-DC-0125	CGS_6.2_B24 optional (Master)	Dcc
CGS-RIBRE-DC-0126	CGS_6.2_B24 optional (Backup)	CGS CM
CGS-RIBRE-DC-0127	CGS_6.2_B24 Test SW (Master)	Dcc
CGS-RIBRE-DC-0128	CGS_6.2_B24 Test SW (Backup)	CGS CM

Table 1 : Identification of Data Carriers

This delivery contains online documentation only.

3.4 Identification of the Generation and Test Environment

The CGS SW Generation environment is described in chapter 5 of the release notes of ref. [AD 2.1].

This version is internal identified by PDB checkpoint CGS_6.2.5_B24_LINUX.

4 SW Release Status

4.1 Release Status

The release status as defined by the SRO [AD 2.1.1.] is:

ENGINEERING RELEASE

4.2 Commercial Baseline

- ✓ Suse Linux Enterprise Server 8 / ServicePack3
- ✓ Oracle 9.2.0.5
- ✓ Gipsy 4.2.2 based on glibc 2.2 (with patch for call pr-3437)
- ✓ Dataviews 9.9
- ✓ CGS API with gnat 5.0.2a
- ✓ CIS CORBA Server with OrbRiver for Ada (CORBA 2.5, GIOP 1.2)

This CGS SW release shall be executed on Intel PC with SUSE Linux Enterprise Server 8 (SLES8) based environments.

4.3 Compatibility Statement

The software is based on CGS 6.2.4.

The SAS build with the CGS API are compatible to CGS version 6.2.3 with respect to following rules:

- ✓ SAS build with CGS_API 6.2.3 requires TES_CONFIG_FILE and dbs_configuration_file.def
- ✓ SAS build with CGS_API 6.2.4 requires dbs_configuration_file.def

Due to the new privileges concept in CGS, some of the system library procedures are guarded. For compatibility reasons to earlier versions like CGS 5.1.1 (usage of generated UCL user library sources, ...) the user is able to removes all key words '*guarded*' in the delivered CGS UCL system library sources without lost of functionality (except the checking of privileges).

4.4 New or Updated Components

All software components are updated.

4.5 New features in CGS_6.2.5

What's new in CGS_6.2.5 (in different to CGS 6.2.4)?

1. CGS CONFIGURATION

- The configuration for the product DBS and TSCV has been changed. DBS is using now a common configuration file, which can be changed by graphical means. Following configuration files are obsolete:

- ✓ dbs_configuration_file.def
- ✓ fa_sas_configuration_file.def
- ✓ tscv_configuration.dat

This files will be renamed after CGS installation in directories \$CGS_HOME/etc, \$CGS_HOME/local/config and \$HOME/.cgs/config. Please insert the needed configuration parameters into your configuration files manually. Use the configuration editor for this task. All available configuration parameters are described in a delivered example configuration file \$CGS_HOME/etc/configuration_example.xml.

- ✓ \$CGS_HOME/gsaf/config/bin/configuration_editor [-admin] <File>

example: \$CGS_HOME/gsaf/config/bin/configuration_editor
\$CGS_HOME/etc/configuration_example.xml.

Remark: The entries and changes in the configuration_editor must be confirmed with <Enter>

- Due to using of delivered style sheet \$CGS_HOME/etc/configuration.xsl the configuration can be visualized in a browser.

2. CGS HOUSEKEEPING VALUES

- CGS provides new housekeeping values. There are an extension of existing housekeeping values maintained by the TES application and CIS application specific housekeeping parameter.
- CIS application specific housekeeping parameter.

HK-ID	Name	Description	Type	Default
1300	Cis_Trdb_Overall_Status	The overall status of the test result database (OK, NOT OK)	Discrete	\$OK
1301	Cis_Cmdh_Overall_Status	overall status of the command history (OK, NOT OK)	Discrete	\$OK
1302	Cis_Number_Expected_Tes	Number of expected testnodes (TES)	Integer	0

1303	Cis_Number_Connected_Tes	Number of connected testnodes (TES)	Integer	0
------	--------------------------	-------------------------------------	---------	---

These HK values can be requested by CIS clients (only by CIS clients) like any other CGS HK values as telemetry data via the existing TM HK Data interface, specified by their HK ID.

Following rules are existing:

- ✓ Since the addressed CIS is apparently the master for these data, request for HK data in the CIS HK range must be via (MASTER_NODE, <HK_ID>) - otherwise, it will be rejected as invalid.
- ✓ Accordingly, identification of a CIS HK parameter update returned to the clients is also (MASTER_NODE, <HK_ID>).
- ✓ For other CGS HK parameters, identification of a HK parameter update returned to the clients is as received during the subscription, i.e. either (MASTER_NODE, <HK_ID>) or (NAMED_NODE, <node name>, <HK_ID>).
- ✓ HK IDs outside 1300-1399 are sent to TES, IDs 1304-1399 rejected as invalid.
- ✓ CIS internal HK values are updated at CGS configuration.xml specified value CIS.HKTask.PollingCycle (5 sec default).
- ✓ Values are delivered to subscribers once when subscribed and then on change.
- ✓ For CORBA clients implementing systemcontrolinterface.sessionclient, systemcontrolinterface.sessionclient.CGSIsAlive is set to

```

TRUE
  when
    Cis_Number_Expected_Tes = Cis_Number_Connected_Tes  AND
    Cis_Cmdh_Overall_Status = "OK"                      AND
    Cis_Trdb_Overall_Status = "OK",
FALSE
  otherwise.

```

- ✓ Restriction of the current implementation:

Any duplicate item entries for the same TM data request will be silently ignored by CIS. Identification of update values returned to the clients will be the first received subscription. This applies also to

- Subscription of the same TM item via SID, path or nickname, since all are internally translated to the SID.
- Subscription of the HK parameter via MASTER_NODE or NAMED_NODE, <MTP node name>, since MASTER_NODE is internally translated into <MTP node name>.

However, multiple subscriptions for the same item in different requests are possible.

- New housekeeping values maintained by the TES.

HK-ID	Name	Description	Type	Default
600	Served_SAS	Number of connected special application software (SAS)	Integer	0
602	Served_CIS	Number of connected CGS interface server (CIS)	Integer	0
1021:	Cmdh_Overall_Status	The overall status of the command history	Discrete	\$OK

- Visualisation of housekeeping values maintained by the TES in HCI.

- ✓ SAS status window

SAS Status [1] - TEST_NODE_01, path; \EURECA\EGSE\TOPOL

Number of connected SAS 3

SAS_Name	Service	Messages	Last Mes...	Link-Id
SAS_1	ADU_GDU	0		4
SAS_2	ADU_GDU	0		5
SAS_3	ADU_GDU	0		6

14:43:46

- ✓ Test node status window

Test Node Status [1] - TEST_NODE_01, path; \EURECA\EGSE\1

Status: **General** Data Generation Links Monitoring Replay Time

LINKS

Connected workstations 1 Connected SAS 3

Connected Cis 1

14:45:05

- ✓ Database node status window

DB_NODE_STATUS	
Printer Status	DISABLED
Printer Queue Status	OFF
Printer Jobs	0
Session Name	
Magnetic Disc Free Space (Kbytes)	4979740
Evaluations connected to TRDB	0
DBS Overall Status	OK
Command History Status	OK
TRDB Table Space (percentage used)	
Event Table	5
Master Archive Table	7
Miscellaneous Table	1
14:44:28	

3. IMPROVEMENT FOR PROCESS CONTROL IN TSCV

- The status information for DBS and Command History in the TSCV main window has been improved. A process to process communication was established, so the displayed status information are up to date and correct now. The update interval is configurable in \$CGS_HOME/etc/tscv_configuration_file.dat with parameter NODE_STATUS_UPDATE_INTERVAL. The recommended value is each 5 seconds.

Test System Configuration and Validation

Test Site mber_col

System ▾ Properties ▾

Test Configurations

Configuration ▾ Edit ▾ Test Session ▾ Replay Session ▾

No. ♦	Name	Status ♦	FA ♦	Log ♦	Online Session	Replay Session
1	NORM_STD_ALONE	Idle		Y		
2	NORM_DISTR	Active		Y		
3	ONLY_STEPHAN	Idle		Y		
4	NORM_DISTR_CSS	Idle		Y		
5	SCENARIO_1_TN2	Idle		Y		

Test Configuration \EURECA\EGSE\TEST_COMMON\TN_2\CONFIG\NORM_DISTR

System Tree Version 8

Mission Name DUMMY_MISSION

CCU Configuration Q_TEST_DISTR

CCU Pathname \EURECA

CCU Version 4.0.0

CCU Internal ID 1000150

Node ▾ Properties ▾

MTP	Instance	Name	Part	Mode	State
>	TES_01	TEST_NODE_01	Yes	Normal	Available
	TES_02	TEST_NODE_02	Yes	Normal	Available
	HCI_02		Yes		No contact
	CIS_01		Yes		Executing*
	DBS		Yes		Executing
	CMDH		Yes		Executing

Init CGS connections Initialization completed

4. PROJECT SPECIFIC DEFINITIONS OF MDB

- Some project specific MDB configurations files was located in following obsolete directories:

- ✓ \$CGS_HOME/gsaf/mda/config/mdb/install/user_defined_inits
- ✓ \$CGS_HOME/gsaf/mda/config/mdb/install/user_defined_procedures
- ✓ \$CGS_HOME/gsaf/mda/config/mdb/install/user_defined_tables

For project specific configuration files are existing now different locations in the \$CGS_HOME/etc/project/mdb directory:

- ✓ \$CGS_HOME/etc/project/mdb/user_defined_inits

Meaning: modify data dictionary

Execution: SQL-scripts are exists in this folder are executing during initialize_mdb

- ✓ \$CGS_HOME/etc/project/mdb/user_defined_procedures

Meaning: user defined stored SQL procedures, procedures, functions
Execution: SQL-scripts are exists in this folder are executing during install_mdb

- ✓ \$CGS_HOME/etc/project/mdb/user_defined_tables/temp_mdb

Meaning: add additional aggregates to TEMP_MDB
Execution: SQL-scripts are exists in this folder are executing during install_mdb on TEMP_MDB

- ✓ \$CGS_HOME/etc/project/mdb/user_defined_tables/mdb

Meaning: additional aggregates to MDB, define new tables or views
Execution: SQL-scripts are exists in this folder are executing during install_mdb on MDB

5. SAS GENERATION with CGS API

- For the generation of external applications there are small changes for the usage of the CGS_API:

- ✓ Code change in your SAS main procedure - insert in the declaration part of your main procedure:

```
with Cgs_Api;
-- or / and:
with Mda_Api;
```

Remark: This with clauses replace the former definition in the ADA code like:

```
procedure Cgs_Apiinit; -- TES/TEV API
pragma Import(Ada, Cgs_Apiinit, "cgs_apiinit");

-- OR / AND

procedure Mda_Apiinit; -- MDB data API
pragma Import(Ada, Mda_Apiinit, "mda_apiinit");

-- call CGS API library init function
Cgs_Apiinit;

-- OR / AND

-- call data API library init function
Mda_Apiinit;

procedure SAS is
  procedure Cgs_Apiinit;
  pragma Import(Ada, Cgs_Apiinit, "cgs_apiinit");
  ...
begin
  Cgs_Apiinit;
  ...
end SAS;

-- OR / AND:

procedure SAS is
  procedure Mda_Apiinit;
  pragma Import(Ada, Mda_Apiinit, "mda_apiinit");
  ...
begin
  Mda_Apiinit;
  ...
end SAS;
```

end SAS;

Now you can write easy:

```
with Cgs_Api;  
-- or / and:  
with Mda_Api;  
...  
  
procedure SAS is  
...  
begin  
...  
end SAS;
```

- ✓ Compile / Link your SAS main procedure - gnatmake options:

To compile and link with the CGS API or MDA API, use these gnatmake options:

for linux:

```
-I$GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/cgs_api  
-largs $GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/cgs_api/libcgs_api.a  
$GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/cgs_api/libcgs_c.a
```

```
-I$GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/mda_api  
-largs $GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/mda_api/libmda_api.a  
$GSAF_HOME/cgsi/lib/api/ada/linuxi_gnat/cgs_api/libcgs_c.a
```

for sun

```
-I$GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/cgs_api  
-largs $GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/cgs_api/libcgs_api.a  
$GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/cgs_api/libcgs_c.a
```

```
-I$GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/mda_api  
-largs $GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/mda_api/libmda_api.a  
$GSAF_HOME/cgsi/lib/api/ada/sun5_gnat/cgs_api/libcgs_c.a
```

4.6 SW Problem Status

4.6.1 SPR Status and Impact Analysis

For this release 28 SPR's are solved.

ID	TITLE
SPR-15680	'Log error!' from HCI
SPR-16351	TSCV: Internal program error from 'View configuration'
SPR-16714	TSCV: Impossible to close cyclic session
SPR-16844	TEV: Cannot delete result files from 'Merge'
SPR-100032	Incorrect CSV Files
SPR-100117	Missing crucial Command History and CIS h/k info on the MCS Overview Monitor window
SPR-100133	Load-Scoe prevents the generation of the SCOE-files if more than 20 SASs exist in configuration
SPR-100134	Start.Message_Window script will not work properly
SPR-100145	Restore of CCU fails
SPR-100166	MCS tools start not possible after CGS tools start
SPR-100170	TEV crash when no result file specified
SPR-100199	New HK values requestet
SPR-100200	New HK values requestet
SPR-100201	CIS: no status information are available
SPR-100222	MCS Tools - online command history freeze on all workstations
SPR-100224	CGS API needs DBS configuration file
SPR-100235	I-Code is lost when new CCU version is copied from a previous one
SPR-100249	Print File in Graph Tool does not work
SPR-100259	Selection of ADUs and GDUs from archive files on SMT does not work
SPR-100268	MCS TOOLS cannot prepare DMS_Issue_Discrete_Cmd_Sw cmds
SPR-100270	Clean option of makefiles for BDE does not work correctly
SPR-100271	Store of a CLS Definition with real parameter raised Oracle Error
SPR-100272	Wrong Flags in Synoptic Displays
SPR-100299	XML SCOE File Generation terminates abnormally
SPR-100300	Incorrect data in View-Window
SPR-100301	Loading Synoptic Display corrupts HCI
SPR-100305	Incorrect Processing of Parameterized Items by XML SCOE File generator
SPR-100307	MCS tools command editor shows command parameters in wrong order

4.6.2 Temporary fixed Problems

4.6.3 Further Open Problems

4.6.4 Known Restrictions

- It is not possible to prepare a telecommand (SWOP, FLAP, PUS_TC, and TC) via CIS, if this telecommand is defined with garded parameters in the parameter lists.

4.7 Test Status

This CGS SW release shall be executed on Intel PC with SUSE Linux Enterprise Server 8 (SLES8) based environments. The test status is CGS - AIV tested.

5 Installation Procedures

This software shall be used on Intel PC with SUSE Linux Enterpriser Server 8 (SLES8).

5.1 Complete Installation

For a complete installation follow the instructions of CGS installation manual ref. [AD 2.1].

Remark: The actual CGS installation manual is on CD below /<mountpoint>/doc/manual.

5.2 Patch Installation (based on CGS 6.2.4)

For a patch installation follow the next instructions:

5.2.1 Needed passwords

- <cgsadmin> (UNIX user)
- <MDB_ADM> (oracle user)

5.2.2 Installation steps

1. login as <cgsadmin> on DB server host
2. cgs shutdown via task_selector
3. quit task_selector
4. terminate the cgs_daemon
in shell: killall -9 cgs_daemon
5. stop command history / central distributor (on command history server)
in shell: \$CGS_HOME/gsaf/dbs/bin/common/stop_cmd_history
in shell: \$CGS_HOME/gsaf/dbs/bin/common/stop_central_distributor
6. move project specific mdb configuration files
Please move your project specific mdb configuration files. For detailed information refer section 4.5 part 4.
7. insert CGS basic CD CGS_6.2.5
8. mount CD
9. install all products from CD
in shell: /<mountpoint>/installer.sh

Select Continue, Continue, Install, -- for CGS
Previous, TOOLS, Continue, Install -- for TOOLS
Exit
10. unmount CD
11. register version
in shell: vit_manager -upd_item cgs VERSION 6.2.5

12. insert CGS optional CD CGS_6.2.5

REMARK: This and the next four steps are optional.

13. mount CD

14. install all optional products from CD

in shell: \$CGS_HOME/gsaf/config/bin/installer.tcl

Continue

Select for **Installation Source** path /<mountpoint>/gsaf

Continue, Install, -- for CGS optional
Previous,

Select for **Installation Source** path /<mountpoint>/addon

Continue, Install -- for add-ons (unsupported)
Exit

15. unmount CD

16. register version

in shell: vit_manager -upd_item cgs_optional VERSION 6.2.5

17. update configuration.xml

Insert needed configuration parameter for subproducts DBS and TSCV. For detailed information refer section 4.5 part 1.

18. build your SAS with the new API

Either

you build your SAS with the new delivered CGS_API again
(CGS recommend this solution!)

or

you copy the obsolete
dbs_configuration_file.def.pre625 to dbs_configuration_file.def
and/or copy the obsolete
TES_CONFIG_FILE.pre624 to TES_CONFIG_FILE
at \$CGS_HOME/etc (this is a work around only for compatibility).

For detailed information refer section 4.3.

19. update the MDB / MDB stored procedures

in shell:

\$CGS_HOME/patches/CGS_6.2.5/patch_mdb.sh

-- needs ca. 2 minutes

verify output: MDB patch successfully installed

REMARK: The next command is only necessary for an update of the internal data structure of the MDB (e.g. new data structure delivery for extended databases (user defined data types)). During initialization all user entries in the flexible tool invocation and flexible reports are deleted.

This command is optional and the usage shall be decided by projects.

\$CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/initialize_mdb

```
$CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/update_plsql_stored_procedures
```

REMARK: The next command is only necessary for a better performance of MDB access.

This command is optional and the usage shall be decided by projects.

```
$CGS_HOME/gsaf/mda/config/mdb/install/admin_scripts/gather_mdb_stats
```

20. reboot server and if the server is ready, reboot all clients

6. Acronyms

CCU	<i>Configuration Control Unit</i>
CGS	<i>Core Ground SW</i>
MDBD	<i>Mission Data Base Data</i>
PDB	<i>Project Data Base</i>
SW	<i>Software</i>